

SERIAL NO: 09/777,246 David J. Povich

5

c.) Amendments to the claims:

1 (Currently Amended): Product Cutting tool design apparatus operable by a client comprising:

a ~~product~~ database server operable to provide a plurality of product cutting tool styles, a plurality of customizable attributes, and a plurality of composite images;

at least one client computer for enabling the client to access accessing the ~~product~~ database server to select a product cutting tool style and the customizable attributes based upon choices presented by the ~~product~~ database server and selections submissions made by the client via the client computer,

the ~~product~~ database server being operable to provide a custom product cutting tool design by combining a selected one of the ~~product cutting tool~~ styles with a selected plurality of the attributes as submitted via the client computer; and

a plurality of graphic representations illustrative of the ~~product cutting tool~~ styles and the customizable attributes, said database server being operable to display said ~~product cutting tool~~ styles and the submitted customizable attributes on the client computer from which the client may select a desired product cutting tool style and the submitted customizable attributes by clicking on the desired product cutting tool style and the submitted customizable attributes,

said ~~product~~ database server being operable to provide a composite image representing a product cutting tool having the selected

SERIAL NO: 09/777,246 David J. Povich

6

style and the selected submitted attributes.

2 (Currently Amended): The design apparatus according to claim 1 wherein the ~~product~~ database server and the client computer are connected by a TCP/IP compliant protocol.

3 (Currently Amended): The design apparatus according to claim 1 wherein the ~~product~~ database server is operable to display a plurality of quantity choices of the ~~product~~ cutting tool having the selected custom design.

4 (Currently Amended): The design apparatus according to claim 1 wherein the ~~product~~ database server is operable to display[[s]] the custom design ~~product~~ cutting tool having the composite image, the ~~product~~ cutting tool style, the submitted customized attributes, and the quantity choices.

5 (Currently Amended): The design apparatus according to claim 1 wherein the client computer is operable to submit the custom design ~~product~~ cutting tool to the ~~product~~ database server to initiate an order for said ~~product~~ cutting tool.

6 (Currently Amended): A ~~product~~ cutting tool design method using sequential computer screens to create a final ~~product~~ cutting tool according to a predetermined one of a plurality of available specifications comprising:

(a) graphically displaying a plurality of ~~product~~ cutting tool styles and a plurality of customization attributes on a plurality of said sequential computer screens;

(b) selecting one of said ~~product~~ cutting tool styles and one or more of said attributes from the display of ~~product~~ cutting tool styles and

SERIAL NO: 09/777,246 David J. Povich

7

customizable attributes by clicking on a desired ~~product~~ cutting tool style and customizable attribute;

(c) producing an image of a final ~~product~~ cutting tool having the selected style and the selected attributes; and

(d) displaying said image and ~~product~~ cutting tool specification information based on the selected cutting tool style and customizable attributes.

7 (Currently Amended): The method according to claim 6 including sending the ~~product~~ cutting tool specification information to a receiver by email.

8 (Currently Amended): The method according to claim 7 wherein said receiver is a supplier of said ~~product~~ final cutting tool.

9 (Currently Amended): An article of manufacture comprising:

a computer readable medium having a computer readable program code embodied thereon, said computer readable program being configured to perform the steps of:

graphically displaying a plurality of selectable ~~product~~ cutting tool styles and a plurality of selectable cutting tool customizable attributes on a computer screen;

receiving selected ~~product~~ cutting tool style and cutting tool customizable attribute information from the display of ~~product~~ said cutting tool styles and said cutting tool customizable attributes;

selecting a desired ~~product~~ cutting tool style and one or more cutting tool customizable attributes using the received information; and incorporating the selected customizable cutting tool attributes

SERIAL NO: 09/777,246 David J. Povich

8

into the selected cutting tool style; and

displaying the selected ~~product~~ cutting tool style and incorporated customizable cutting tool attributes together with product specification information based on the received information.

10 (Currently Amended): A ~~product~~ cutting tool design system operable by a client, comprising:

a cutting tool database server operable to graphically display a selected one of a plurality of cutting tool styles, a plurality of cutting tool customizable attributes, and a plurality of composite images on a computer screen;

at least one client computer operable to access the cutting tool database server and select a cutting tool style and one or more customizable cutting tool attributes based upon choices presented by the cutting tool database server and decisions made by said client via the client computer;

said cutting tool database server being operable to provide display a custom designed cutting tool by combining a selected one of the cutting tool styles with the selected cutting tool attributes from the graphical display; and

a plurality of graphic representations illustrative of a custom designed tool having the selected cutting tool style and the selected cutting attributes, said custom designed tool being displayable on the client computer.

11 (Currently Amended): The design system according to claim 10 wherein the cutting tool database server and the client computer are

SERIAL NO: 09/777,246 David J. Povich

9

connected by a TCP/IP compliant protocol.

12 (Currently Amended): The design system according to claim 10 wherein the cutting tool database server displays a plurality of quantity choices for the custom designed cutting tool.

13 (Currently Amended): The design system according to claim 10 wherein the cutting tool database server displays the custom designed cutting tool ~~having the~~ as a composite image~~[[,]]~~ incorporating the cutting tool style, the customized attributes, and the quantity choices.

14 (Currently Amended): The design system according to claim 10 wherein the client computer is operable to submit the custom designed cutting tool to the cutting tool database server to initiate an order for said custom designed tool.

15 (Currently Amended): A ~~product design~~ method of using sequential computer screens to custom design a cutting tool according to a specification originating with a client comprising:

(a) graphically displaying a plurality of cutting tool styles and a plurality of ~~eustomization~~ customizable cutting tool attributes originated by said client on a computer screen using a plurality of sequential images;

(b) selecting one of said cutting tool styles and one or more of said cutting tool customizable attributes from the graphical display by clicking on ~~a desired product~~ the selected cutting tool style and customizable cutting tool attributes;

(c) creating a cutting tool image having the selected cutting tool style and customizable cutting tool attributes; and

SERIAL NO: 09/777,246 David J. Povich

10

(d) displaying said cutting tool image on one of said screens.

16 (Currently Amended): The method according to claim 15 including displaying on said one of said screens selected specifications relating to a cutting tool corresponding to said cutting tool image.

17 (Currently Amended): The method according to claim 16 including transmitting to a receiver by email the displayed cutting tool image and the specification displayed on said selected screen.

18 (Currently Amended): The method according to claim 17 wherein said receiver is a cutting tool supplier.

19 (Currently Amended): The method according to claim 15 wherein the selected cutting tool style ~~includes~~ has a body having a diameter and a selected one of: a ball end having a value equal to greater than 50% of the diameter; a square end; and a corner-radius end having a value less than 50% of the diameter.

20 (Currently Amended): The method according to claim 19 wherein the selected cutting tool style has a flat, a reduced cutting diameter, and a neck.

21 (Currently Amended): The method according to claim 15 wherein the selected cutting tool style is formed of carbide.

22 (Currently Amended): An article of manufacture comprising:  
a computer readable medium having a computer readable program code embodied thereon for enabling a client to custom design a cutting tool, said computer readable program code being operable to perform the steps of:

graphically displaying a plurality of carbide rotary cutting tool

SERIAL NO: 09/777,246 David J. Povich

11

styles and a plurality of customization attributes on a computer screen as a plurality of sequential images;

receiving user-selected carbide rotary cutting tool styles and customizable cutting tool attribute information of a selected cutting tool style from the graphical display;

creating a selected cutting tool image using the received information; and

displaying the selected cutting tool image along with specification information related to said selected cutting tool image and based on the received information.